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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/065,543	10/29/2002	Tadashi Takano	SIMTEK6506	7672
	590 03/12/2003			
ERNEST A. BEUTLER ATTORNEY AT LAW 500 NEWPORT CENTER DRIVE SUITE 945			EXAMINER	
			NGUYEN, TRAN N	
NEWPORT BEACH, CA	ACH, CA 92660		ART UNIT	PAPER NUMBER
		•	2834	
			DATE MAILED: 03/12/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office Action Co.	200 200 3	10/065,543	TAKANO ET AL.
Office Action Summary		Examiner	Art Unit
		Tran N. Nguyen	2834
The MAILING DATE of the Period for Reply	his communication appo	ears on the cover she	et with the correspondence address
A SHORTENED STATUTORY THE MAILING DATE OF THIS - Extensions of time may be available undo after SIX (6) MONTHS from the mailing of if the period for reply specified above, is le if NO period for reply wis specified above, - Failure to reply within the set or extended - Any reply received by the Office later than earned patent term adjustment. See 37 C	er the provisions of 37 CFR 1.13/ late of this communication. ses than thirty (30) days, a reply the maximum statutory period will period for reply will, by statute, or three maximum the offer the status.	S(a). In no event, however, r within the statutory minimum I apply and will expire SIX (6	nay a reply be timely filed of thirty (30) days will be considered timely.) MONTHS from the mailing date of this communication.
1) Responsive to commun.	ication(s) filed on		
2a) ☐ This action is FINAL .		action is non-final.	
,			
	th the practice under E	x parte Quayle, 193	matters, prosecution as to the merits is 5 C.D. 11, 453 O.G. 213.
4)☐ Claim(s) <u>1-7</u> is/are pendi	ing in the application.		
4a) Of the above claim(s)		n from consideration	
5) Claim(s) is/are allo			
6) Claim(s) <u>1-7</u> is/are rejecte	ed.		
7) Claim(s) is/are obj	ected to.		
8) Claim(s) are subjective.		election requirement	
Application Papers			
9)☐ The specification is objected	ed to by the Examiner.		
10) $oxtimes$ The drawing(s) filed on	is/are: a)□ accepte	d or b) objected to	by the Examiner.
Applicant may not request	that any objection to the o	lrawing(s) be held in a	Devance. See 37 CFR 1.85(a)
11) The proposed drawing corr	rection filed on is	s: a)∏ approved b)[disapproved by the Examiner.
If approved, corrected draw	rings are required in reply	to this Office action.	
12)☐ The oath or declaration is o		niner.	
Priority under 35 U.S.C. §§ 119 an	d 120		
13) Acknowledgment is made	of a claim for foreign p	riority under 35 U.S.	C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐	None of:		
 Certified copies of the copies of the copies of the copies. 	ne priority documents h	ave been received.	
			Application No
 Copies of the certifie 	ed copies of the priority	documents have be	en received in this National Stage
14) ☐ Acknowledgment is made of	a claim for domestic p	riority under 35 U.S.	C. § 119(e) (to a provisional application).
a) ∐ The translation of the f 15)☐ Acknowledgment is made o	oreign language provis	ional application has	been received
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing 3) Information Disclosure Statement(s) (P	g Review (PTO-948) TO-1449) Paper No(s)	4)	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)
. Patent and Trademark Office FO-326 (Rev. 04-01)	Office Action	Summary	Part of Paper No. 2

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

- 2. The drawings are objected to under 37 CFR 1.83(a) because they do not clearly show the following, as described in the specification and recited in the claimed:
 - * a single indented portion is formed around the entire peripheral edge of each of the lamination sheets, as in claim 2,
 - * a plurality of circumferentially spaced indented portions are formed around the peripheral edge of each of the lamination sheets, as in claim 4.

The drawings show these features in small illustration. The applicant is required to show the above features in an enlarge view to clearly illustrate the claimed features.

Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 112

3. Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, "the peripheral edge" lacks antecedent basis.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kloster et al (US5142178) in view of Yamamoto (US 5338996) and level of ordinary skills of a worker in the art.

Kloster discloses a laminated core for a rotary electric machine (figs 1-2), said core comprising a plurality of stacked lamination sheets (2) formed from a electromagnetic material, each of said lamination sheets being comprise of a circular core portion from which a plurality of circumferentially spaced teeth extend radially inwardly to receive coil windings, the peripheral outer area of the circular core portion spaced from said pole teeth being formed with an indented portion forming a peripheral projection thereof and a peripheral recess on the other side thereof, the peripheral projection of each of said lamination sheets being received in the peripheral recess of the adjacent of said lamination sheets for interlocking said lamination sheets.

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Kloster substantially discloses the claimed invention, except for the following:

- (a) the laminated plate's edge is formed with indented portion;
- (b) the indented portion is formed around the entire peripheral edge, as in claims 2-3; or the indented portions with the projections and the recesses are provided at the peripheral edge of the circular core portion instead of being located in the peripheral area spaced from said pole teeth; and, the intended portions are circumferentially aligned and equal to number of poles, as in claims 4-7.

Regarding the limitation in subsection (a), Kloster discloses the indented portions to interlock the stacked laminations. Those skilled in the art would realize that forming the intended portion at the peripheral edge of the laminated plates instead of forming it in the peripheral area, as in Kloster, is a matter of re-arranging the disclosed Kloster's indented portions. This rearrangement would facilitate the fabrication of the intended portion.

Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to rearrange the intended portion at the peripheral edge of the laminated plates because it would facilitate the fabrication of the intended portion during the manufacturing process. This is obvious because it has been held that rearranging parts of an invention involves only routine skill in the art, since one of ordinary skill in the art would have the necessary mechanical skill to make a simple rearranging the position of the disclosed element without an express teaching in a reference. *In re Japikse*, 86 USPQ 70. (emphasis added).

Regarding the limitations of subsection (b), those skilled in the art would understand that forming a plurality of indented portions or a single continuous circumferential indented portion in the laminated plates for interlocking the laminated core plates is a matter of engineering design choice based upon the size and weight of the core. For instant, a high power dynamoelectric machine might require sufficient large size to ensure the core structural integrity, the core might be configured with a plurality of intended portions to interlock the laminate core

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plates. On the other hand, in a miniature dynamoelectric machine, the core might usually be a small and light weight core, then the configuration of a single continuous intended portion might be more suitable. Thus, it would have been obvious to an artisan to modify the size of the indented portion to be a single continuous circumferential indented portion or to include a plurality of intended portions are circumferentially aligned and equal to number of poles.

Thus, it would have been obvious to one skilled in the art at the time the invention was made to modify the indented portions of the Kloster's laminated core by configuring the plural intended portions into a single continuous circumferential indented portion, doing so would decrease and simplify the manufacturing process. It has been held that a change in size or shape is generally recognized as being within the level of ordinary skill in the art. *In re Rose*, 105 USPQ 237 (CCPA 1955) (emphasis added).

Furthermore, it would have been obvious to one skilled in the art at the time the invention was made to modify the Kloster's laminated core by providing a number of intended portions to be the same as the number of poles and spaced in alignment with the poles this would provide more interlocking mechanism for the laminated plates to ensure the core structural integrity, particularly if the core is used as a rotor core, the more interlocking mechanisms would enable the rotor core to withstand the centrifugal force during the rotor's operation. Doing so would require only routine skills in the art since it has been held that merely duplication of the essential working parts, in this case the interlocking indended portions, of a device involves only routine skill int he art. *St. Regis Paper Co. vs. Bemis Co.*, 193 USPQ 8.

Communication

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tran N Nguyen whose telephone number is (703) 308-1639. The examiner can normally be reached on M-F 6:00AM-2:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703)-308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703)305-3431 for regular communications and (703)-395-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-308-1782

TRAN NGUYEN

PRIMARY PATENT EXAMINER

TC-2800